SERVICING INFORMATION

B&K PRECISION

MODEL 2833

ROCKFORD INSTRUMENT LAB
1718 Broadway
Rockford, IL 61104

Bench Type 4-1/2 Digit TRUE RMS MULTIMETER

PARTS LIST

SCHEMATIC SYMBOL	DESCRIPTION	B&K-PRECISION PART NO.
	RESISTORS	
	Unlisted resistors are ±5%, 1/2 W. See schematic diagram for value.	
PTC1, 2	1.5 KΩ, 550V Thermistor	005-020-9-001
R1	Resistor Network	012-042-9-002
R2	150 kΩ ±1%, 1/4 W, Metal Film	014-144-1-503
R3	4.7 kΩ ±5%, 1/4 W, Carbon Film	002-104-5-472
R4	Not Used	
R5, 6	100 kΩ ±1%, 1/4 W, Metal Film	015-144-1-003
R7, 8	24 kΩ ±5%, 1/4 W, Carbon Film	002-104-5-243
R10	47 kΩ ±5%, 1/4 W, Carbon Film	002-004-5-473
R11	10 MΩ ±5%, 1/4 W, Carbon Film	002-104-5-106
R12	9.53 kΩ ±1%, 1/4 W, Metal Film	015-144-9-531
R13	40.2 kΩ ±1%, 1/4 W, Metal Film	014-144-4-022
R14	24.9 kΩ ±1%, 1/4 W, Metal Film	014-144-2-492
R15	100 kΩ ±1%, 1/4 W, Metal Film	015-144-1-003
R16	4.7 kΩ ±1%, 1/4 W, Metal Film	013-061-9-001
R17 - 20	1 MΩ ±1%, 1/4 W, Metal Film	015-144-1-004
R21, 22	100 kΩ ±1%, 1/4 W, Metal Film	015-144-1-003
R23	2.2 MΩ ±5%, 1/4 W, Carbon Film	002-108-5-225
R24	20 kΩ ±5%, 1/4 W, Carbon Film	002-104-5-203
R25	100 Ω ±0.1%, 1/4 W, Metal Film	018-144-1-000
R26	270 kΩ ±5%, 1/4 W, Carbon Film	002-108-5-274
R27	4.7 MΩ ±5%, 1/4 W, Carbon Film	002-104-5-475
R28	3.3 MΩ ±5%, 1/4 W, Carbon Film	002-104-5-335
R29, 30	100 kΩ ±5%, 1/4 W, Carbon Film	002-104-5-104
R31	51 kΩ ±5%, 1/4 W, Carbon Film	002-104-5-513
R32	12.7 kΩ ±1%, 1/8 W, Metal Film	015-184-1-272
R33	113 kΩ ±1%, 1/8 W, Metal Film	015-184-1-133
R34	84.5 kΩ ±1%, 1/4 W, Metal Film	014-144-4-452
R35	220 kΩ ±5%, 1/4 W, Carbon Film	002-104-5-224
R36	5.36 kΩ ±1%, 1/4 W, Metal Film	015-184-5-361
R37	20 kΩ ±1%, 1/4 W, Metal Film	015-144-2-002
R38	1 kΩ ±5%, 1/4 W, Carbon Film	002-104-5-102
R39	2.67 kΩ ±1%, 1/4 W, Metal Film	014-144-2-671
R40	1 kΩ ±5%, 1/4 W, Carbon Film	002-104-5-102
R41	116 kΩ ±1%, 1/4 W, Metal Film	013-132-9-001
R42	2.49 kΩ ±1%, 1/4 W, Metal Film	013-144-2-491
R43 - 45	500 kΩ ±5%, 1/4 W, Carbon Film	004-230-9-002
R46	10 kΩ ±5%, 1/4 W, Carbon Film	002-104-5-103
R47	330 kΩ ±5%, 1/4 W, Carbon Film	002-104-5-334

COMPOSITE
499-359-9-001C

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ACCESSORIES SUPPLIED

1 AC Adapter
1 Set Safety Type Test Leads, 1 Red, 1 Black
1 Spare Fuse
Instruction Manual

OPTIONAL ACCESSORIES

MODEL	DESCRIPTION
CP-1	Clamp-On AC Current Probe
PR-23	Demodulator Probe
PR-21	Isolation/Direct Probe
HV-6	High Voltage Probe, 6 kV
PR-28	High Voltage Probe, 40 kV
FP-10	10-Amp Test Leads
FP-30	Replacement Test Lead Set

SCHEMATIC SYMBOL	DESCRIPTION	B&K-PRECISION PART NO.
	RESISTORS (Continued)	
R48 - 56	500 kΩ ±5%, 1/4 W, Carbon Film	004-230-9-002
R57	.09 Ω ±0.5%, 2 W	004-246-9-001
R58	0.01 Ω, 20 Amp Shunt	004-229-9-004
R59 - 61	Not Used	
R62	10 kΩ ±1%, 1/4 W, Metal Film	015-144-1-002
R63	3.3 kΩ ±5%, 1/4 W, Carbon Film	002-104-5-332
R65	500 kΩ ±5%, 1/4 W, Carbon Film	004-230-9-002
RN1	Not Used	
RN2	Resistor Network	012-042-9-001
VR1	2 kΩ ±10%, ±100 PPM, Trimmer Potentiometer	010-042-9-005
VR2, 3	200 Ω ±10%, ±100 PPM, Trimmer Potentiometer	010-042-9-004
VR4	1 MΩ ±10%, ±100 PPM, Trimmer Potentiometer	010-042-9-003
VR5	100 kΩ ±10%, ±100 PPM, Trimmer Potentiometer	010-042-9-002
VR6	1 kΩ ±10%, ±100 PPM, Trimmer Potentiometer	010-042-9-001
VR7 - 10	5 kΩ ±20%, ±200 PPM, Trimmer Potentiometer	010-042-9-007
VR11	20 kΩ ±20%, ±200 PPM, Trimmer Potentiometer	010-042-9-006
VR12	5 kΩ ±20%, ±200 PPM, Trimmer Potentiometer	010-042-9-007
VR13	200 Ω ±20%, ±200 PPM, Trimmer Potentiometer	010-037-9-001
	CAPACITORS	
C1, 2	0.1 µF ±10%, 100 V, Polyester	025-253-9-001
C3	100 pF ±5%, 50 V, Ceramic	020-389-9-002
C4	15 pF ±5%, 50 V, Ceramic	020-419-9-002
C5	1 µF +80/-20%, 10 V, Multilayer	022-420-9-001
C6	0.1 µF ±10%, 250 V, Polyester	025-258-9-001
C7	Not Used	
C8	22 µF +80/-20%, 16 V, Electrolytic	022-368-9-001
C9	100 µF +80/-20%, 6.3 V, Electrolytic	022-360-9-001
C10	220 µF +80/-20%, 10 V, Electrolytic	022-368-9-002
C11	0.022 µF ±10%, 1000 V, Polyester	025-271-9-003
C12	10 µF ±20%, 16 V, Tantalum	027-086-9-001
C13	4.7 µF ±20%, 10 V, Tantalum	027-080-9-001
C14	Not Used	
C15	1.0 µF ±20%, 16 V, Tantalum	027-080-9-003
C16	0.1 µF ±10%, 100 V, Polyester	025-253-9-001
C17	22 pF ±5%, 50 V, NP0 Ceramic	020-410-9-002
C18	220 pF ±2.5%, 100 V, Polypropylene	030-075-9-001
C19	4 pF ±0.25 pF, 50 V, Ceramic	020-410-9-003
C20	1.0 µF ±20%, 16 V, Tantalum	027-080-9-003
C21	470 pF ±5%, 50 V, Ceramic	020-391-9-001
C22	0.1 µF +80/-20%, 50 V, Multilayer	020-388-9-003
C23	1.0 µF ±20%, 16 V, Tantalum	027-080-9-003
C24	10 µF +80/-20%, 16 V, Electrolytic	022-342-9-002
C25	0.22 µF ±10%, 630 V, Polyester	025-266-9-001
C26	5.6 pF ±0.5%, 1000 V, NP0 Ceramic	020-410-9-005
C27, 28	Not Used	
C29	870 pF ±5%, 50 V, Polystyrene	030-072-9-002
C30	Not Used	
C31	0.01 µF ±2%, 50 V, Polyester	025-271-9-001
C32	0.1 µF ±2%, 50 V, Polyester	025-271-9-002
C33	0.01 µF ±10%, 100 V, Polyester	025-258-9-002
C34	0.01 µF +80/-20%, 50 V, Ceramic	020-401-9-001
VC1	0.8-4 pF, 1000 V, Trimmer	028-107-9-001
VC2	5-30 pF Trimmer	028-104-9-001
VC3	6-70 pF Trimmer	028-107-9-002
VC4	10-150 pF Trimmer	028-107-9-003
	DIODES	
D1	Not Used	
D2 - 6	1 A, 600 PIV	151-050-9-001

SCHEMATIC SYMBOL	DESCRIPTION	B&K-PRECISION PART NO.

MISCELLANEOUS (Continued)

Rear Rubber Foot	381-163-9-002
Black Jack (**COM**)	777-066-9-004
Red Jack (**V-Ω-Hz-**)	777-066-9-003
White Jack (**20 A, A**)	777-066-9-002
3-Pin PCB Connector	757-132-9-001
3-Pin Socket	779-039-9-001
5-Pin PCB Connector	757-132-9-002
5-Pin Socket	779-039-9-002
7-Pin PCB Connector	757-132-9-003
7-Pin Socket	779-039-9-003
10-Pin PCB Connector	757-132-9-004
10-Pin Socket	779-039-9-004
20-Pin PCB Connector	757-132-9-005
40-Pin IC Socket	762-017-9-001
Red Pushbutton Knob (**POWER**)	384-095-9-001
Brown Pushbutton Knob (**AC/DC, DATA HOLD,** etc.)	384-095-9-002
Tan Pushbutton Knob (Range)	384-095-9-003
Foil Shield (Top And Bottom Case)	256-251-9-001
Shield Contact Lug	744-040-9-002
Foil Shield (PCB)	256-259-9-001
Metal Shield Enclosure	256-258-9-001
Copper PCB Support Post (5 x 17 mm)	759-223-9-001
M2 x 6 mm Screw (For PCB Support Post)	634-210-9-001
M2 Spring Washer (For PCB Support Post)	731-103-9-001
M3 x 6 mm Screw (10 Used For Front Panel Mounting)	710-131-9-002
M3 Spring Washer (10 Used With M3 x 6 mm Screw)	731-111-9-001
DC Power Jack	777-066-9-001
Solder Lug (For Power Jack And Front Panel)	744-040-9-001
M2 x 8 mm Self Tapping Screw (AC Adapter Jack)	710-130-9-004
M3 x 6 mm Self Tapping Screw	710-131-9-001
M3 x 8.5 mm Self Tapping Screw	710-131-9-003
M3 x 12 mm Self Tapping Screw	710-123-9-001
Coil Spring (Case Bottom Grounding)	767-149-9-001
Model FP-30 Replacement Test Lead Set (Shrouded Type, 1 Red, 1 Black)	534-830-0-000
Red Test Probe	523-973-9-001
Black Test Probe	523-974-9-001
AC Adapter	523-997-9-001
Caution Label	483-643-9-003
Instruction Manual	480-540-9-001

U.S.A. PARTS ORDERING INFORMATION

There is a minimum charge for each invoice. Orders will be shipped C.O.D. unless previous open account arrangements have been made or remittance accompanies order. Advance remittance must cover handling, postage, or express charges. Specify model and serial number when ordering replacement parts.

ORDER REPLACEMENT PARTS FROM:

B & K-Precision, Maxtec International Corporation
Factory Service Operations
6470 West Cortland Street
Chicago, Illinois 60635
Telephone (312) 889-1448

Also use this address for technical inquires.

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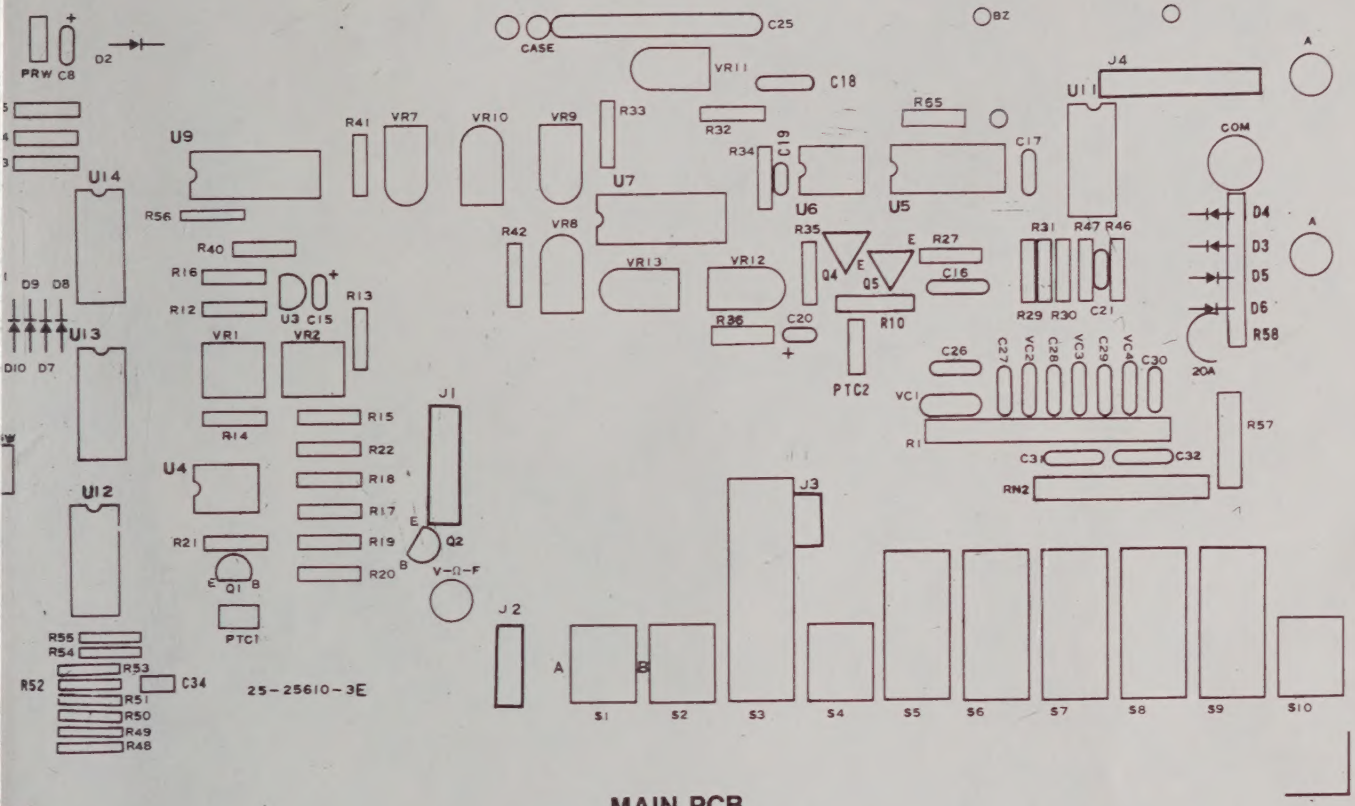
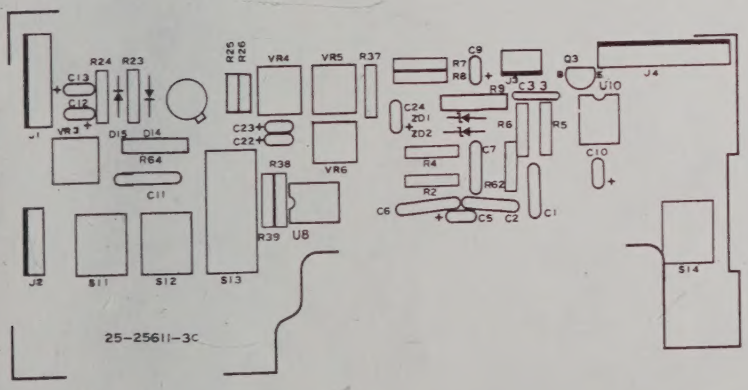
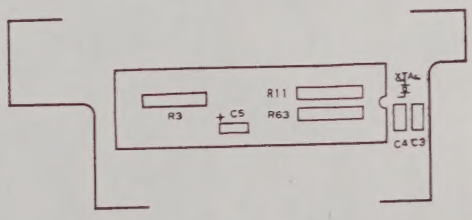


MAIN PCB



UPPER PCB



DISPLAY PCB

25-25631-2E